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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/716,959	11/19/2003	Bogdanovich Alexander	7100-038	6455	
4678	7590 08/08/2006		EXAM	EXAMINER	
MACCORD MASON PLLC 300 N. GREENE STREET, SUITE 1600 P. O. BOX 2974 GREENSBORO, NC 27402			BEFUMO, JENNA LEIGH		
			ART UNIT	PAPER NUMBER	
				THE EXTROPIDER	
UKEENSDU	(O, NC 2/402		1771		
		DATE MAILED: 08/08/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/716,959	ALEXANDER ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Jenna-Leigh Befumo	1771	
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the c	orrespondence address	
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In the specified above, the maximum statutory period of the property within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on 30 M. This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under Expression 1.	s action is non-final. nce except for formal matters, pro		
Dispositi	ion of Claims			
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-40 is/are pending in the application 4a) Of the above claim(s) 8-10,13-24,26-29 and Claim(s) is/are allowed. Claim(s) 1-7,11,12,25 and 30 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	<u>d 31-40</u> is/are withdrawn from cor	nsideration.	
	on Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The section is objected to be a section in the section is objected to be a section in the section in the section is objected to be a section in the section in the section is objected to be a section in the section in the section in the section is objected to be a section in the section in	epted or b) objected to by the Education of the Education is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority u	ınder 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachmen	t(s) e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) Notic 3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da		

Application/Control Number: 10/716,959 Page 2

Art Unit: 1771

DETAILED ACTION

1. The response submitted on May 30, 2006 has been entered. Claims 1-40 are pending. Claims 8-10, 13-24, 26-29, and 31-40 are withdrawn from consideration as being drawn to a nonelected invention.

Claim Rejections - 35 USC § 102

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1, 7, 11, 12, 25, and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Jayaraman et al. (6,381,482) for the reasons of record.
- 4. Claims 1, 7, 11, 12, 25, and 30 are rejected under 35 U.S.C. 102(b) as being anticipated by Wheeler et al. (5,029,977) for the reasons of record.

Claim Rejections - 35 USC § 102/103

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 2 6 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Jayaraman et al. for the reason of record.
- 7. Claims 2 6 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Wheeler et al. for the reasons of record.

Response to Arguments

8. Applicant's arguments filed May 30, 2006 have been fully considered but they are not persuasive. The applicant argues that Jayaraman et al. fails to teach a three-dimensional fabric formed by intersecting yarn systems that form an orthogonal structure (response, page 8).

Application/Control Number: 10/716,959

Art Unit: 1771

Further, the applicant states that the prior art is formed by interlacing yarns and not intersecting yarns that have no interlacing (response, page 8). However, the term "intersecting" is interpreted based on its broadest reasonable interpretation. The claim itself does not further define or limit the term "intersecting". Thus, the interlacing yarns taught by Jayaraman et al. read on the presently claimed limitations since the fabric structure comprises yarns that intersect where they are interlaced together. Thus, Jayaraman et al. discloses all the claimed structural features.

Page 3

Further, in response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., non-interlaced yarns, an orthogonal yarn system, lack of bending in the yarn systems) are not recited in the rejected claims. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Thus, the rejection is maintained.

- 9. The applicant also argues that Wheeler et al. does not teach the claimed intersecting yarn systems because the yarns in Wheeler et al. are interlaced (response, page 9). However, as set forth above, interlacing is not excluded by the term "intersecting". The yarns in Wheeler et al. are both interlaced and intersecting. Additionally, the claim does not exclude bending the yarn systems to form the fabric. Therefore, the rejection is maintained.
- 10. Finally, the applicant argues that the prior art fails to teach a three-dimensional orthogonal structure (response, pages 13 14). However, the claim is not limiting the three-dimensional structure. Further, the claims do not require that the fabric has an orthogonal yarn system, as argued. Thus, the fabrics taught by the prior art have sufficient three-dimensional structure to meet the claim limitations. Thus, the rejections are maintained.

Conclusion

11. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenna-Leigh Befumo whose telephone number is (571) 272-1472. The examiner can normally be reached on Monday - Friday (8:00 - 5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/716,959 Page 5

Art Unit: 1771

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jenna-Leigh Befumo

August 3, 2006